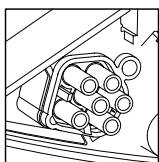


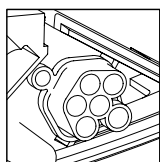
## Feature Specifications

### Electrical

**Connections:** Wiring is via 18 gauge wire. All electrical connections for standard configurations are plug-and-play via 6-wire cannon plug connections. Connections are seated in end castings of fixtures, allowing for simultaneous mechanical/ electrical coupling. Connectors are male/female therefore modules must be installed male to female, starting from the power feed end set.



Male



Female

All static ballasts have the following features:

- Electronic
- High Power Factor
- Class A sound rating
- Metal can

**Emergency Battery Pack:** Emergency Battery packs are designed to operate when normal building power is interrupted. The battery packs operate for a minimum of 90 minutes without any power via a rechargeable battery source. The pack does not utilize the standard static ballast for any of its operation since the pack carries its own pseudo ballast. For this reason, Lightolier does not recommend remote mounting EM Packs because all of the socket wiring would need to carry throughout the powerfeed end set. The EM batteries, even in their largest, most expensive form, operate the fluorescent lamps at only half the lamp rated output. Emergency battery packs are available in the following outputs:

- 450 Lumens (Standard)
- 635 Lumens
- 1100 Lumens
- 1375 Lumens

Emergency battery packs can be used for emergency egress lighting since all listed packs operate for a minimum of 90 minutes, or can be used as momentary lighting for emergency circuit power transitions. Smaller packs are recommended for this purpose.

**Dimming:** T8 and T5HO lamps are dimmed with two wire ballasts. T8 lamps can be dimmed down to 5% and T5HO lamps can be dimmed down to 1%. T5 lamps require 5-wire dimming ballasts and can be dimmed down to 1%. A 5-wire power feed will be required for T5 (non-HO) dimming.

Factory installed ballast disconnect allows the ballast to be disconnected from and reconnected to incoming power under load without turning the entire circuit off.

### Labels Included

UL, cUL, and IBEW

### Features

- Housing:** 18 gauge steel. 6" (15.24cm) cast aluminum end caps. No exposed fasteners or hardware.
- Lamping:** 2 T8 fluorescent lamps per 4' (121.92cm) section. Lamps by Lightolier as an option, see ordering information.
- Reflector:** Precision die-formed premium anti-iridescent, highly reflective aluminum.
- Louver:** Parabolic louver, low-iridescent semi-specular anodized aluminum, 25 degree shielding lengthwise. Blades are spaced 2.3" (5.84cm) O.C with a radius that matches the housing. 1" (2.54cm) tall louver attaches to housing.
- Optional Slotted Top Reflector:** Precision die-formed anti-iridescent, highly reflective aluminum.

### Mountings

Cable suspension is on 48" (121.92cm) and 96" (243.84cm) centers and consists of a 4 1/2" (11.43cm) diameter canopy finished white enamel. A 1/16" (0.16cm) diameter stainless steel aircraft cable accomplishes suspension and is adjustable from 12" (30.48cm) to 36" (91.44cm). Power feed is 18-gauge SJT silver braided cord with a clear jacket. For special circuiting consult factory.

### Finish

Powder coated, baked enamel, white or aluminum, as specified. Custom colors available, consult factory.

## Ordering Instructions

### Individual Fixtures:

1. Order number of MODULES required.
2. Order one POWER FEED END SET per MODULE.

### Continuous Rows:

1. Determine run length.
2. Order the appropriate number of MODULES for the complete run.
3. Order one POWER FEED END SET for each run.
4. Order one CABLE ASSEMBLY per MODULE minus one per run.
5. For runs that exceed conductor ampacity ratings order the appropriate number of SINGLE CABLE & CORD SETS.

Job Information	Type:
<b>Job Name:</b>	
<b>Cat. No.:</b>	
<b>Lamp(s):</b>	
<b>Notes:</b>	

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## Module Ordering Information

Family	Series	Lamping & Distribution	Ballast	Lamp	Shielding	Length	Voltage	Finish	Options (Blank)
EG	1	2 = 2 Lamp 5 = 2 Lamp, Slotted Top Reflector	See Chart Below	See Chart Below	P P = Parabolic Louver	4 = 4' (121.92cm) 8 = 8' (243.84cm)	1 = 120V 2 = 277V	A = Aluminum W = White	4 = 4 through wires 5 = 5 through wires 6 = 6 through wires D = Dual Switch T = Tandem Switch E = Emergency Pack

When ordering generic ballast and no lamps provided by Lightolier, use Ballast code "Z" Lamp code "Z"

## Module Ordering Specifications

### Lamping and Distribution

2 = 2 Lamp

5 = 2 Lamp, Slotted Top Reflector

#### Ballast Specifications

Code	Lamp Type	Ballast Factor	Start Type	THD %
A	T8	0.78	Instant	<10
B	T8	0.88	Instant	<10
C	T8	1.20	Instant	<20
H	Dim T8	1.00/.05	Program	<10
Z	T8	0.88	Instant	<20

**Dimming:** Advance Mark-10 standard (no additional wires required) for T8 and T5HO fixtures. 5-wire dimming required for T5 (non-HO) fixtures. Optional dimming systems: Lutron ECO-10 and Hi-Lume (by others) require 4-wire modules and end sets. Mark-7, ULT, DALI and Lightolier HDF require 5-wire modules and end sets. Energos can accept ballasts not to exceed 1.7" (4.32cm) wide by 1.2" (3.05cm) high.

### Shielding

P = Parabolic Louver

### Length

4 = 4ft (48") (121.92cm)

8 = 8ft (96") (243.84cm)

### Voltage

1 = 120VAC

2 = 277VAC

### Finish

A = Aluminum

W = White

### Wiring Options

**Blank** = Leave blank if ordering standard fixture.

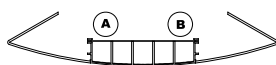
4 = 4 through wires

5 = 5 through wires

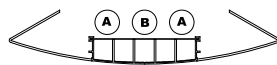
6 = 6 through wires

### Feature Options

D = Dual Switching (AKA A/B switching)

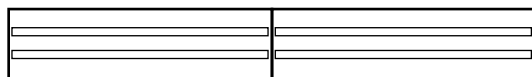


2-Light Option



3-Light Option

T = Tandem Switching (also available in 1-lamp configuration)



A

B

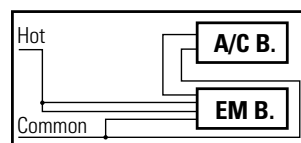
Both Dual Switch and Tandem Switch fixtures ship with a 4th wire. Be sure to order the appropriate quantity of wires in the power feed.

#### Lamping Specifications

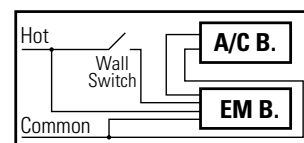
Code	Lamp Type	Wattage	Rated Output (Lumens)	Color (K)
A	T8	28	2725	830
B	T8	28	2725	835
C	T8	28	2725	841
D	T8	30	2850	830
E	T8	30	2850	835
F	T8	30	2850	841
G	T8	32	3000	830
H	T8	32	3000	835
I	T8	32	3000	841
J	T8	32	3100	830
K	T8	32	3100	835
L	T8	32	3150	841

### Feature Options (continued)

**E = Emergency Battery Pack (E):** Battery packs provide 90 minutes of operation. Available lamp outputs: 450 Lumens (standard). Optional: 635, 1100 and 1375 Lumens. Standard Emergency wiring is to have Battery Pack operating a single lamp. All EM fixtures are wired as "switched" and include 4th through wire for the wall switch (see diagrams). All fixtures and power feeds in that run should be ordered to include a dedicated 4th through wire to carry the hot power all the way through the run to the EM pack.



Unswitched



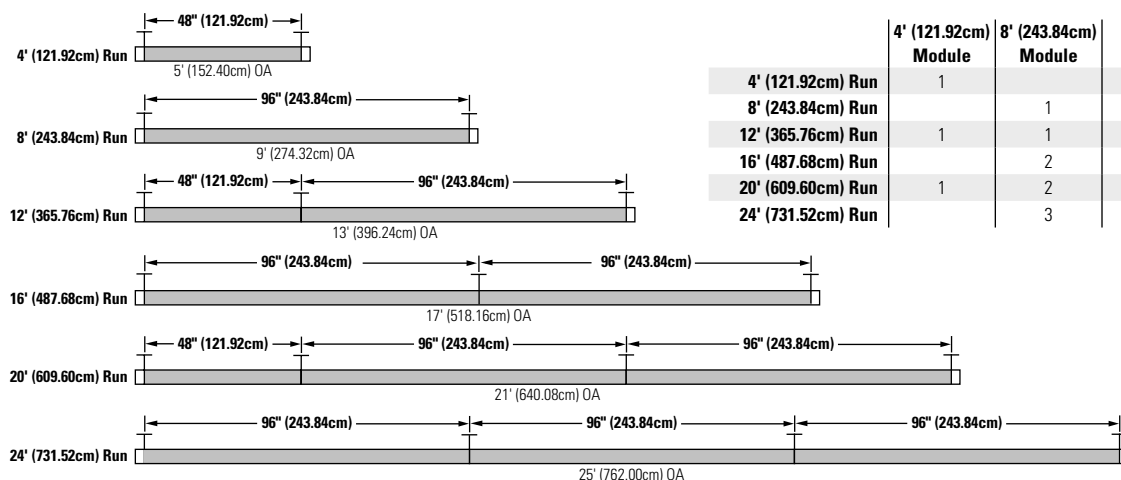
Switched

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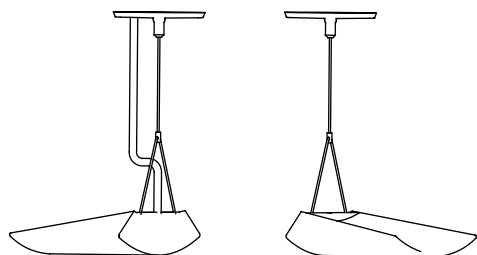
## Fixture Lengths & Mounting Locations



## Suspension and End Set Ordering Illustrations

### Power Feeds

Consult Lamp and Ballast System data to determine input watt requirements for ballast used on project to determine loading for each run. Multiply the total number of ballasts by the input wattage per ballast, and to determine ampacity divide the total watts by the system voltage. 10 Amps for 3-wire end sets, 7 Amps for 4-wire and 5-wire end sets, maximum.

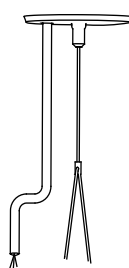


### Power Feed End Set

White, 3 Wire Cord: EG1EC36W  
 White, 4 Wire Cord: EG1EC36W4  
 White, 5 Wire Cord: EG1EC36W5  
 Aluminum, 3 Wire Cord: EG1EC36A  
 Aluminum, 4 Wire Cord: EG1EC36A4  
 Aluminum, 5 Wire Cord: EG1EC36A5

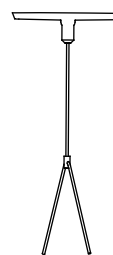
### Control

Consult appropriate ECS (Energos Control Systems) specification sheet for ordering product utilizing occupancy controls. ECS specification sheet numbers directly correlate to standard Energos specification sheet numbers.



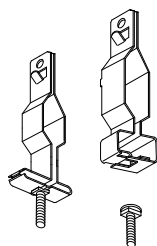
### Cable/Cord Assembly

Single Cable & Power Cord: EGCC36  
 Single Cable & 4 Wire Power Cord: EGCC36X4  
 Single Cable & 5 Wire Power Cord: EGCC36X5



### Cable Assembly

Single Cable: EGC36



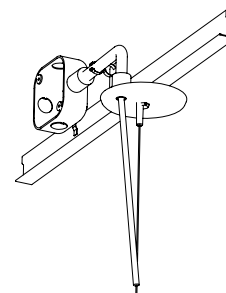
### Ceiling Grid Kit: CGK

Because most ceilings are white, all canopies ship as white unless specifically ordered otherwise.

Both CGK and CGKP ship with two types of clips (standard and slot T).

For mounting fixtures directly to the T grid, order one CGK per non-power suspension point and one CGKP per powered suspension point.

The CGKP will include a special canopy with flex coupler, grid clips and additional clips to mount the junction box to the top of the grid nearby. J-Box and flex conduit provided by others.



### Ceiling Grid Kit, Power: CGKP

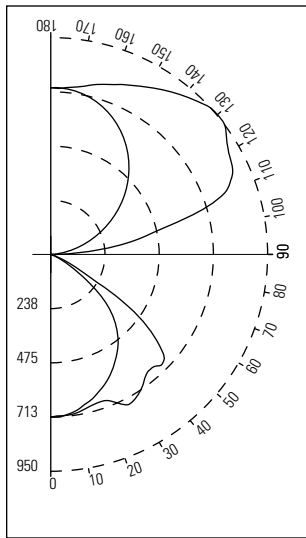
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## Performance — Two Lamp Fixture With Open Top

Candlepower Curve



Report No.: EG1-2N-BE.ies  
Lamps: 2-F32T8  
Lumens: 2850  
Efficiency: 92.7  
Cat. No.: EG12BEP  
25°C Rating

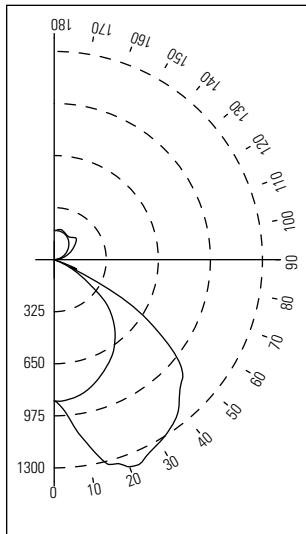
Zone→ Degree ↓	Candlepower				
	0	22	45	67	90
	Candelas				
180	730	730	730	730	730
175	730	732	734	732	733
165	704	717	736	758	771
155	654	682	744	794	818
145	576	635	742	834	877
135	481	574	736	877	936
125	370	501	728	892	937
115	248	425	662	820	880
105	129	341	552	625	610
100	72	275	358	382	392
95	27	155	187	206	189
90	0	2	13	18	23
85	0	0	1	1	0
75	2	2	3	3	3
65	39	57	42	54	81
55	178	296	405	451	462
45	386	459	557	624	685
35	510	529	638	683	702
25	598	611	627	681	722
15	664	671	679	683	686
5	708	709	711	708	708
0	712	712	712	712	712

Coefficients Of Utilization											
% Effective Ceiling Cavity Reflectance											
		80			70			50			
		% Wall Reflectance									
Room Cavity Ratio		50	30	10	50	30	10	50	30	10	
	0	96	96	96	87	87	87	69	69	69	
	1	85	81	78	76	74	71	61	59	58	
	2	75	69	65	68	63	60	54	51	49	
	3	66	60	55	60	54	50	48	45	41	
	4	58	52	46	53	47	43	43	39	36	
	5	52	45	40	47	41	37	38	34	31	
	6	47	39	34	42	36	32	35	30	27	
	7	42	35	30	38	32	28	31	27	23	
	8	38	31	26	35	29	24	28	24	21	
	9	34	28	23	31	26	22	26	21	18	
10	31	25	21	29	23	19	24	19	16		
20% Floor Cavity Reflectance											

Distribution			
Zone	Lumens	% Lamp	% Luminaire
0-90	1748	31	33
90-180	3534	62	67
0-180	5283	93	100

## Performance — Two Lamp Fixture With Optional Slotted Top Reflector

Candlepower Curve



Report No.: EG1-2D-BE.ies  
Lamps: 2-F32T8  
Lumens: 2850  
Efficiency: 66%  
Cat. No.: EG15BEP  
25°C Rating

Zone→ Degree ↓	Candlepower				
	0	22	45	67	90
	Candelas				
180	182	182	182	182	182
175	183	183	185	184	185
165	179	185	191	193	191
155	169	180	179	180	175
145	153	165	162	168	171
135	130	139	149	181	191
125	102	109	152	161	156
115	70	86	109	116	111
105	38	55	60	69	66
95	9	13	14	21	23
90	0	0	0	0	0
85	0	0	0	0	0
75	2	0	0	1	1
65	71	136	135	158	109
55	279	535	693	789	803
45	513	882	997	1061	1115
35	655	1027	1150	1227	1273
25	753	1020	1244	1338	1356
15	835	974	1162	1292	1324
5	879	902	940	967	979
0	882	882	882	882	882

Coefficients Of Utilization											
% Effective Ceiling Cavity Reflectance											
		80			70			50			
		% Wall Reflectance									
		50	30	10	50	30	10	50	30	10	
Room Cavity Ratio	0	75	75	75	72	72	72	66	66	66	
	1	68	65	63	65	63	61	60	59	57	
	2	60	57	53	58	55	52	54	51	49	
	3	54	49	45	52	48	44	48	45	42	
	4	48	43	39	46	42	38	43	39	36	
	5	43	37	34	41	36	33	39	35	31	
	6	38	33	29	37	32	29	35	31	28	
	7	35	29	26	34	29	25	32	27	24	
	8	32	26	23	31	26	22	29	25	22	
	9	29	24	20	28	23	20	26	22	19	
10	26	22	18	26	21	18	24	20	17		
20% Floor Cavity Reflectance											

Distribution			
Zone	Lumens	% Lamp	% Luminaire
0-90	3081	54	82
90-180	680	12	18
0-180	3761	66	100

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## Ballast and Lamp Ordering Combinations

Design.	Lamp Type (T8 or T5)	Ballast Factor (BF)	Ballast THD (%)	Lamp Rated Wattage	Lamp Rated Output	Lamp Color (Kelvin)	IES Output (Lumens)	System Input Watts	System Efficacy (lum/watt)	System Lamp Life (Hours)	Start Type
AA	T8	0.78	<10	28	2725	830	2415	21	101.21	18000	Instant
AB	T8	0.78	<10	28	2725	835	2415	21	101.21	18000	Instant
AC	T8	0.78	<10	28	2725	841	2415	21	101.21	18000	Instant
AD	T8	0.78	<10	30	2850	830	2526	22.5	98.80	18000	Instant
AE	T8	0.78	<10	30	2850	835	2526	22.5	98.80	18000	Instant
AF	T8	0.78	<10	30	2850	841	2526	22.5	98.80	18000	Instant
AG	T8	0.78	<10	32	3000	830	2659	24	97.50	18000	Instant
AH	T8	0.78	<10	32	3000	835	2659	24	97.50	18000	Instant
AI	T8	0.78	<10	32	3000	841	2659	24	97.50	18000	Instant
AJ	T8	0.78	<10	32	3100	830	2748	24	100.75	18000	Instant
AK	T8	0.78	<10	32	3100	835	2748	24	100.75	18000	Instant
AL	T8	0.78	<10	32	3150	841	2792	24	102.38	18000	Instant
BA	T8	0.88	<10	28	2725	830	2725	24	99.92	18000	Instant
BB	T8	0.88	<10	28	2725	835	2725	24	99.92	18000	Instant
BC	T8	0.88	<10	28	2725	841	2725	24	99.92	18000	Instant
BD	T8	0.88	<10	30	2850	830	2850	26	96.46	18000	Instant
BE	T8	0.88	<10	30	2850	835	2850	26	96.46	18000	Instant
BF	T8	0.88	<10	30	2850	841	2850	26	96.46	18000	Instant
BG	T8	0.88	<10	32	3000	830	3000	27.5	96.00	18000	Instant
BH	T8	0.88	<10	32	3000	835	3000	27.5	96.00	18000	Instant
BI	T8	0.88	<10	32	3000	841	3000	27.5	96.00	18000	Instant
BJ	T8	0.88	<10	32	3100	830	3100	27.5	99.20	18000	Instant
BK	T8	0.88	<10	32	3100	835	3100	27.5	99.20	18000	Instant
BL	T8	0.88	<10	32	3150	841	3150	27.5	100.80	18000	Instant
CA	T8	1.2	<20	28	2725	830	3716	34.5	94.78	18000	Instant
CB	T8	1.2	<20	28	2725	835	3716	34.5	94.78	18000	Instant
CC	T8	1.2	<20	28	2725	841	3716	34.5	94.78	18000	Instant
CD	T8	1.2	<20	30	2850	830	3886	36.5	93.70	18000	Instant
CE	T8	1.2	<20	30	2850	835	3886	36.5	93.70	18000	Instant
CF	T8	1.2	<20	30	2850	841	3886	36.5	93.70	18000	Instant
CG	T8	1.2	<20	32	3000	830	4091	39	92.31	18000	Instant
CH	T8	1.2	<20	32	3000	835	4091	39	92.31	18000	Instant
CI	T8	1.2	<20	32	3000	841	4091	39	92.31	18000	Instant
CJ	T8	1.2	<20	32	3100	830	4227	39	95.38	18000	Instant
CK	T8	1.2	<20	32	3100	835	4227	39	95.38	18000	Instant
CL	T8	1.2	<20	32	3150	841	4296	39	96.92	18000	Instant
HG	T8 DIM	1.0 / .05	<10	32	2850	830	2850 /143	34 / 8	83.80	NA	Program
HH	T8 DIM	1.0 / .05	<10	32	2850	835	2850 /143	34 / 8	83.80	NA	Program
HI	T8 DIM	1.0 / .05	<10	32	2850	841	2850 /143	34 / 8	83.80	NA	Program

### Notes:

\*25°C Rating

All data is per 1 lamp on a two lamp system at 277 VAC. Data is based on Osram Sylvania Specifications

When ordering generic ballasts and no lamps provided by Lightolier, use Ballast Code "Z" and Lamp code "Z"

Do not alter lumen values or ballast factor light losses when completing calculations using Energos IES files.

Files have already been adjusted. The lumen value for the lamp (within a Lighting Design program) will be the IES Output value shown on this table.

### Job Information

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